

## **VOLCANO GEOLOGY COMMISSION: CANDIDATURE FOR THE NEW LEADERSHIP**

**Natalia Pardo:** Universidad de los Andes (Colombia)

**Matteo Roverato:** Università di Bologna (Italia)

### **GENERAL PLAN:**

- **COMMUNITY ENGAGEMENT:** We would recontact and connect the members mentioned in the annual report to verify who still interested and motivated to work in the commission plans. This would also help us to seek for potential leaders of working groups to address the main goals of the commission.
- **VISIBILITY AND IMPACT:** We'd like to activate the website as an interactive platform with a toolkit for volcano geology field techniques and examples. We believe this would be very useful as a reference for current and future generations needing guidelines to work in the field, face mapping challenges, and establish a robust stratigraphic and sedimentological framework. This strategy could be accompanied by the activation of social media accounts for easier and faster communications.
- **CO-WORKING:** we'd also like to follow up with encouraging active participation of the members in proposing sessions during scientific meetings and training workshops. To start, we have a few ideas that we already discussed with other members,
  - The next COV in Guatemala in February 2024 offers an excellent scenario to promote the commission through posters and flyers.
  - Also, we already submitted a Volcano Geology session for Guatemala-2024, which could be followed by a debriefing meeting to summarize lessons learned from the study cases presented there and discuss future plans.
  - We'd like to follow with the workshops for fieldwork training, planning to develop one in northern Andes (Colombia/Ecuador) in early 2025 (or, depending of logistics issues, in early 2026)
- **MULTIDISCIPLINARITY:** We'd encourage active interaction with other commissions and working teams to strengthen the value of fieldwork in volcano environments as a key tool for applied research such as: geoarchaeology, soil sciences, ecology and palaeoecology, palaeogeography, experimental petrology, modelling and geomatics, climate and paleoclimate, geohazards, and geoheritage.

## **CURRICULUM VITAE**

**Dr. Matteo Roverato**

### PERSONAL DETAILS

Name: Matteo Roverato  
Date of Birth: September 18<sup>th</sup> 1981  
Nationality: Italian  
E-mail: [matteoroverato1809@gmail.com](mailto:matteoroverato1809@gmail.com)  
Phone: +39 3205303184

### LANGUAGES SPOKEN

**Italian:** Mother tongue  
**English:** Fluent  
**Spanish:** Fluent  
**Portuguese:** Fluent  
**French:** Intermediate

Linkedin: <https://www.linkedin.com/in/matteo-roverato-67b9b363/>  
Researchgate: [https://www.researchgate.net/profile/Matteo\\_Roverato](https://www.researchgate.net/profile/Matteo_Roverato)  
Google Scholar: <https://scholar.google.ca/citations?user=UXJe1SMAAAAJ&hl=en>  
Orcid: <https://orcid.org/0000-0001-5681-6218>

### EDUCATION

**PhD in Earth Sciences** focused on Physical Volcanology, obtained in May 2012 at the Universidad Nacional Autonoma de México (UNAM, Mexico) with **honorable mention**.  
Nominated for the Alfonso Caso Medal.

**Master degree in Earth Sciences** focused on Physical Volcanology, obtained in April 2008 at the Università degli studi di Pisa (Italy) with the final mark 110/110 (**distinction**).

**Undergraduate Degree in Geological Sciences** focused on Petrology and Volcanology obtained in October 2004 at Università degli studi di Pisa (Italy) with final mark 103/110.

**Technical high school degree (Mechanics)** obtained in 2000 at Istituto Tecnico Industriale "Magistri Cumacini" of Como (Italy) with the final mark 88/100.

### TRAININGS

- Participation in the Project - *Risk evaluation associated to mass-wasting events in Mexican active volcanoes*. UNAM, Mexico. **2017**.
- Training in "*field volcanology and natural hazards assessment*". University of Caldas/University of Andes, Colombia. **2017**.
- Participation in the Project "*Colima volcano hazard assessment*" UNAM, Mexico. **2015**.
- Training in "*Elaboration of volcanic hazard maps*". Puerto Vallarta, Jalisco, Mexico. **2010**
- Training in "*Application of isotopic methods for the study, estimation and protection of water resources*" VI<sup>o</sup> Isotopic hydrology course organized by CNR, Pisa, Italy. **2005**

### PROFESSIONAL EXPERIENCE

- Researcher/Assistant Professor in Physical Volcanology at University of Bologna, Italy. **2023-Present**
- Researcher at University of Geneva, Switzerland in the Geophysics group of Crustal Deformation and Fluid Flow **2020 – 2022**.
- Associate Professor and Researcher at Yachay Tech University, Ecuador. **2017- 2019**.
- Team Lead of geological field campaigns for the course "Geological Mapping and Natural Hazard Assessment" in northern Andes, organized both for students and for professionals. **2019**
- Consultant for the creation of the Imbabura Geopark (UNESCO 2019) in collaboration with students and local indigenous communities, Ecuador. **2017-2019**

- Team Lead of the Ecuadorian “*Study Abroad Program: From de Amazon to the Galapagos*” directed to American (USA) undergraduate students. Managed the geology/volcanology section. **2017-2018**
- Team Lead of the survey “*Volcanic Hazards and Natural Risk Reduction*” with the local indigenous communities in Cayambe volcano Area, norther Andes, Ecuador. **2017**
- Postdoctoral Researcher at University of São Paulo, Instituto de Geociências, Brazil. Project: Paleoproterozoic volcanism in the southern Amazonian craton. **2013-2016.**
- Team Lead of field campaigns in the Brazilian Amazon for geological mapping and ore deposits analyses. Para state, Brazil. **2013-2016.**
- Researcher at Centro de Geociencias, Juriquilla, Queretaro, Mexico. Project: Toluca Volcano stratigraphy. **2012-2013.**
- Assistant Professor at UNAM (Universidad Autonoma de Mexico). Teaching activity to undergraduate students in Physical Volcanology. **2010-2012.**

#### VISITING RESEARCHES and COLLABORATIONS

Invited collaborations and field campaigns with several International Universities:

- Italy (UniBo, UniBz, UniPi, UNiTo),
- Switzerland (University of Geneva),
- Chile (University of Santiago),
- Mexico (CGEO-UNAM),
- New Zealand (Massey University),
- Colombia (University of Caldas, UniAndes),
- UK (University of Plymouth)

#### ACADEMIC SERVICES

- Co-supervisor of the Ph.D. student Symeon Makris, University of Plymouth, UK on Volcanic Debris Avalanches, Canary Islands
- Supervisor and external committee of several thesis of undergraduate and postgraduate students from Ecuador, Colombia, Brazil, UK, Chile, Switzerland and South Africa
- Invited reviewer for international scientific journals: Journal of African Earth Sciences, Journal of Volcanology and Geothermal Research, Revista Geológica Mexicana, Journal of South America Earth Science, Precambrian Research, Journal of International Earth Sciences, Active Volcanoes of the World book series (Volcan de Colima), Earth Surface Dynamics (EGU), Frontiers, Bulletin of Volcanology, Sedimentology.
- Editor for the book “*Volcanic Debris Avalanches - From Collapse to Hazard*” published in 2021 in “*Advances in Volcanology book series*” by Springer Nature.
- Guest Editor for the special Issue: “*Flank dynamics, sector collapses, lahars, and rockfalls: analysis, monitoring, and modelling of small to large scale volcanic slope instability*” hosted (2020) in the “*International Journal of Earth Sciences*”.

#### PEER REVIEWED PUBLICATIONS and CONFERENCES

More than 60 International Publications in Peer Reviewed Journals and International Scientific Meetings (3 invited lectures)

#### CONVENER in CONFERENCES

- 2024 – CoV 12, Antigua, Guatemala
- 2021 (2022)- CoV 11 (IAVCEI), Crete, Greece.
- 2018- CoV 10 (IAVCEI), Naples, Italy.

#### MEMBERSHIPS

- EGU
- IAVCEI